

Aqueous coating composition, its preparation and utilization.

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Abstract

An aqueous coating composition for the manufacture of primers or of filler coatings, which contains at least one water-dispersible binder resin, as well as crosslinking agents and, if appropriate, customary additives, characterised in that the water-dispersible binder resin is at least partly a polyurethane resin which contains components which are derived from (A) polyisocyanates, (B) polyols having an average molecular weight M_n of at least 400, (C) if appropriate low molecular weight polyols, (D) compounds which contain at least two groups which are reactive with isocyanate groups and at least one group capable of anion formation, (E) polyols which carry no further groups reactive with isocyanate groups, where these components (E) are each located on the chain end of the polyurethane resin, if appropriate (F) compounds which are monofunctional or contain active hydrogen of differing reactivity and are different from (E), where these components (F) are also located on the chain end of the polyurethane resin and, if appropriate (G) compounds which are different from (B), (C), (D), (E) and (F) and contain at least two groups reactive with NCO groups. The filler coatings obtainable therefrom are distinguished, inter alia, by improved resistance to flying stones at low temperatures and by good intermediate layer adhesion, while corresponding primers show improved protection against corrosion.

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